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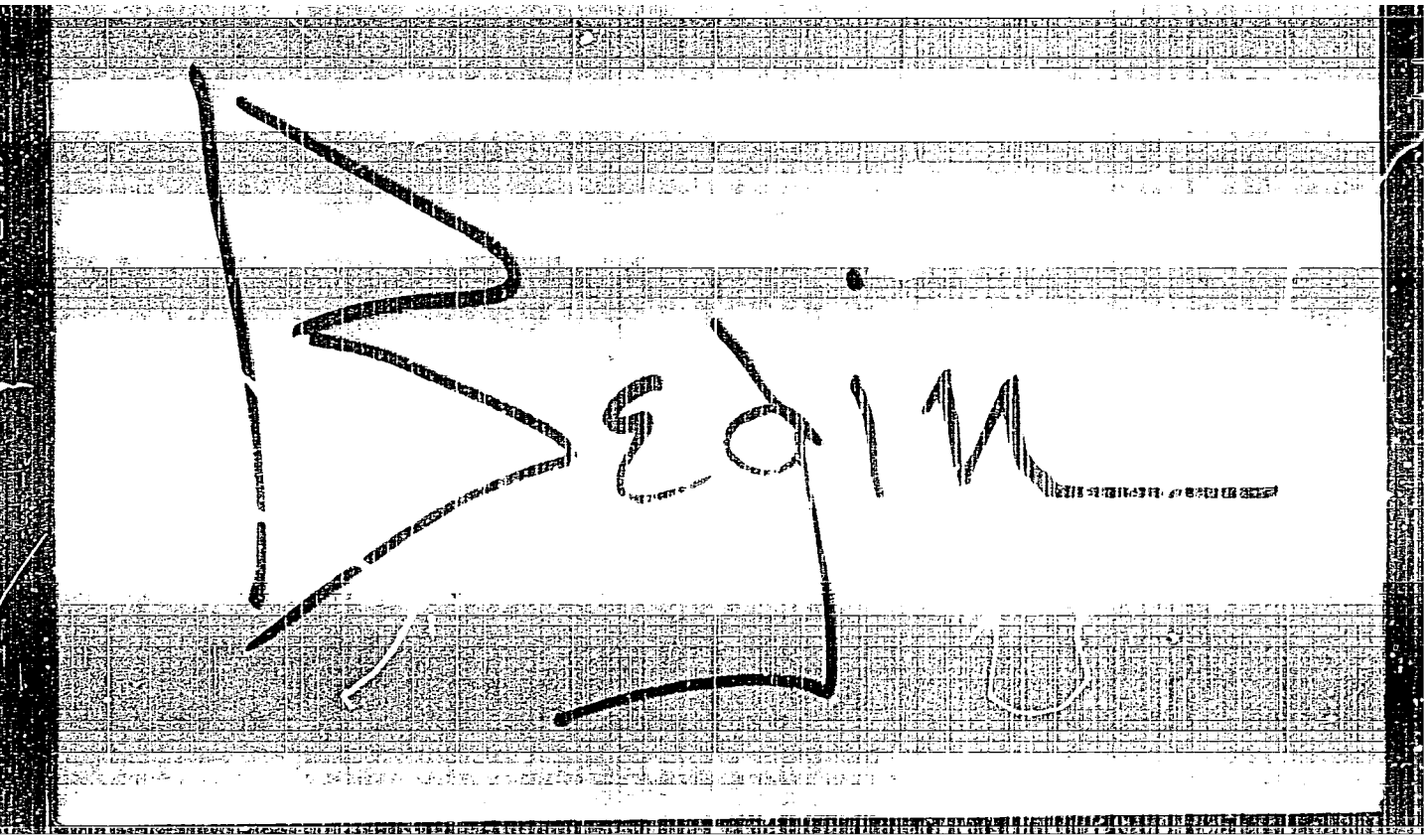

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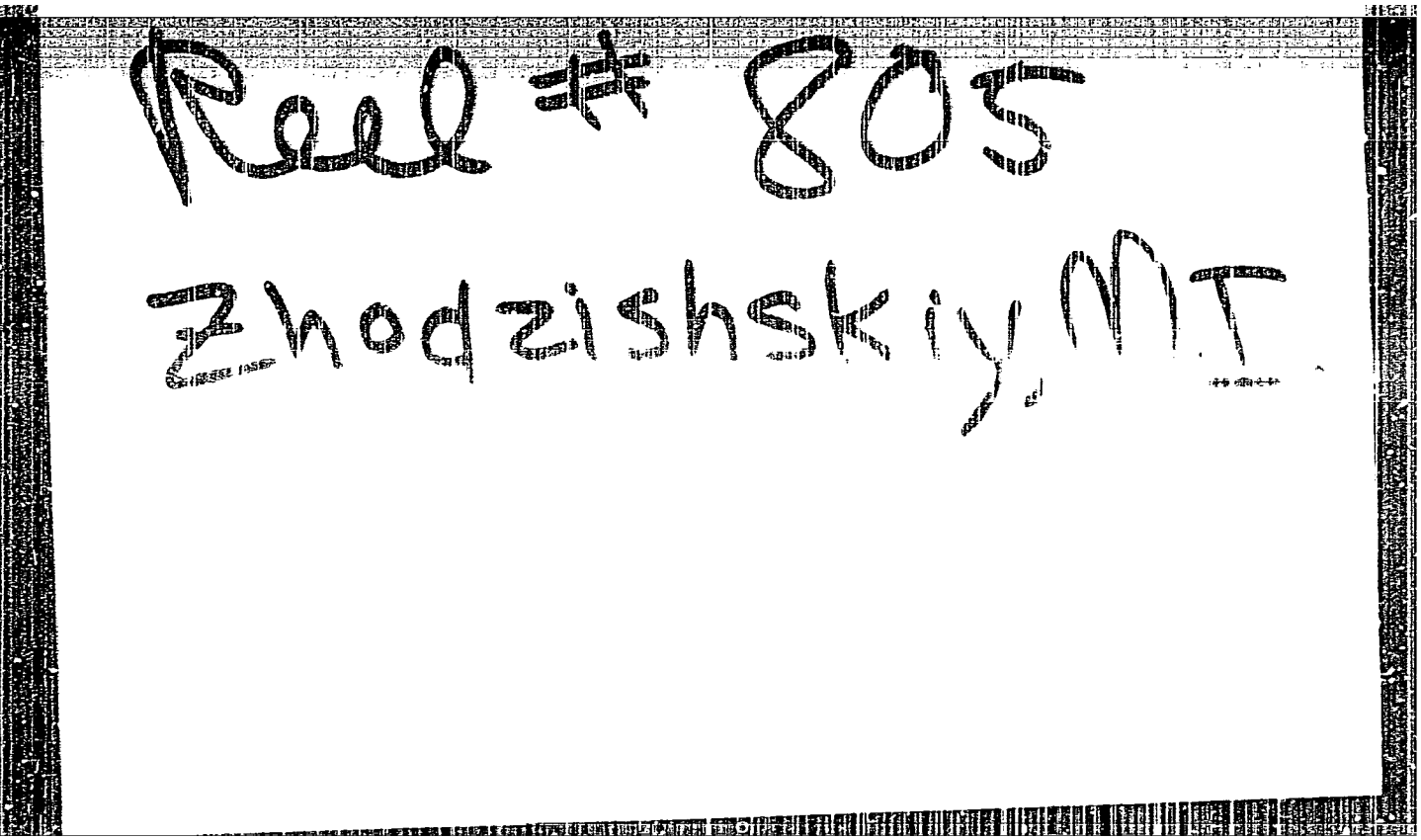

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ZHODZISHSKIY, M.I.

Applicability limits of the approximation of the characteristic of a tube using incomplete third-order polynomials. Radiotekh. i elektron. 8 no.12:2089-2093 D '63. (MIRA 16:12)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHODZISHSKIY, M.I.

Contribution to the theory of the approximation of electron tube characteristics with large voltage amplitudes. Izv. vys. ucheb. zav.; radiotekh. 6 no.3:304-307 My-Je '63. (MIRA 16:9)

1. Rekomendovano Moskovskim ordena Lenina aviatsionnym institutom imeni Sergo Ordzhonikidze.

(Electron tubes)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, M., inzh.

Device for testing speedometers. Avt. transp. 43 no.8:24 Ag '65.
(MIRA 18:9)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, N.A.; KIRICHINSKIY, B.R.

Luminescence of dogs' urine in radiation sickness. Vrach. delo no.9: 126-127 S '60. (MIRA 13:9)

1. Laboratoriya biofiziki (rukovoditel' - chlen-korrespondent AN USSR, prof. A.A. Gorodetskiy) Instituta fiziologii im. akad. A.A. Bogomol'tsa AN USSR.
(URINE--ANALYSIS AND PATHOLOGY)
(RADIATION SICKNESS)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, N. A.

"The Effect of X-Ray Irradiation of the Central Nervous System on the Growth and Distribution of Experimental Cancer in Rabbits," Vrachebnoye Delo, No 6, 1953, pp 483-486.

In experiments with 93 rabbits it was determined that irradiation of the cerebrum, prior to injecting suspensions of cancer tissue into the animals, accelerated metastatic processes, the acceleration being approximately proportionate to the amount of irradiation. (RZhBiol, No 1, 1954)

SO: Sum. No. 443, 5 Apr. 55

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA N.A.

"The Influence of various kinds of Ionizing Radiation on the Skin, and the general Conditions of Experimental Animals" p. 160, in the book Experience in the Use of Radioactive Isotopes in Medicine R. Ye. KAVETSKIY and I.T. SHEVCHENKO, publishing House of the UKRAINIAN SSR, KIEV 1955, represents medical transactions of a conference held in KIEV from 18-20 January 1954.

So: 1100235

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, N. A. Cand Med Sci -- (diss) "Effect of ~~X-Ray~~ radiation ~~of the brain and the whole body~~ with X-Rays upon the resistance of the body to the tumorous process." Kiev, 1957. 11 pp 19 cm. (Department of Biol Sci Acad Sci UkSSR. Inst of Physiology im A. A. Bogomolets). (KL, 23-57, 116)

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118

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, N. A.

CHEBOTAREV, Ye.Ye. (Kiyev, ul. Saksaganskogo, d. 74, kv.6); KOREMEVSKIY, L.I.; LEVCHUK, G.A.; ZHOGA, N.A.

Role of ovarian function exclusion in the compound treatment of breast cancer. Nov.khir.arkh., no.3:14-18 My-Je '57. (MLRA 10:8)

1. Otdel eksperimental'noy i klinicheskoy khirurgii (zav. - chlen-korrespondent AMN SSSR prof. I.N.Ishchenko) i rentgeno-radiologicheskiy otdel (zav. - prof. A.A.Gorodetskiy) Instituta eksperimental'noy biologii i patologii Ministerstva zdravookhraneniya USSR
(BREAST--CANCER) (OVARIOTOMY)

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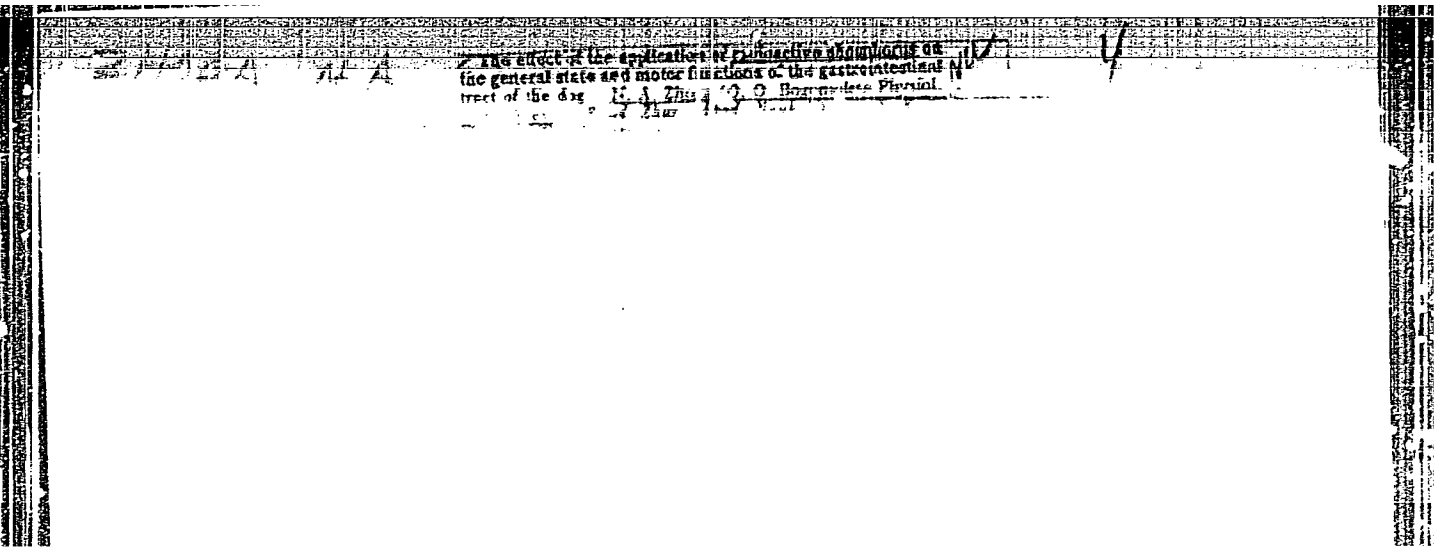

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, N. A., CHEBOTAREV, K. Ye., KOROL', S. A. and SHUR'YAN, I. M. (Kiev)

"Complex Measures in the Treatment of Radiation Sickness,"

cited experimental data on the good effects of the treatment of radiation sickness with : cytoscopic sera, protein blood replacer BK-8 in combination with vitamin B_{12}, and streptomycin

report presented at the 3rd Conferende of Roentgenologists and Radiologists of the Ukr SSR, Kiev, 18-22 June 1956.
Vestnik Rentgenologii i Radiologii, No. 6, Nov.-Dec. 1956, pp. 78-81

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, N.A. [Zhoha, N.A.]; KOCHERGA, D.A. [Kocherha, D.O.]

Changes in the picture of peripheral blood and external respiration during acute radiation sickness in dogs. Fiziol. zhur. [Ukr.] 7 no.2:208-213 Mr-Ap '61. (MIRA 14:4)

1. Laboratory of Biophysics and Physiology of Respiration of the A.A.Bogomoletz Institute of Physiology of the Academy of Sciences of the Ukrainian S.S.R., Kiev.
(BLOOD--ANALYSIS AND CHEMISTRY) (RESPIRATION)
(RADIATION SICKNESS)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, V.; KUROV, Yu.

Poultry plant for three million broilers. Sel'. stroi. no.10:26-27 O '62. (MIRA 15:11)

1. Rukovoditel' laboratorii ptitsevodcheskikh sooruzheniy Ukrainskogo gosudarstvennogo proyektnogo i nauchno-issledovatel'skogo instituta proyektirovaniya sel'skogo i sel'skokhozyaystvennogo stroitel'stva (for Zhoga).
2. Glavnyy konstruktor laboratorii ptitsevodcheskikh sooruzheniy Ukrainskogo gosudarstvennogo proyektnogo i nauchno-issledovatel'skogo instituta proyektirovaniya sel'skogo i sel'skokhozyaystvennogo stroitel'stva (for Kurov).
(Poultry plants)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, V., arkhitektor

Hollow brick wall blocks. Sel'. stroi. 18 no.5:24 My '63.
(MIRA 16:6)

(Bricks)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, V. [Zhoha, V.], inzh.-arkhitektor

New reinforced concrete elements for roofs of poultry buildings.
Bud. mat. i konstr. 4 no.2:38-41 Mr-Ap '62. (MIRA 15:9)
(Precast concrete)
(Poultry houses and equipment)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGA, V. [Zhoha, V.]

Goose farm with mechanization and automation of the production processes. Sil'. bud. 11 no.12:16-18 D '61. (MIRA 15:2)

1.Kerivnik laboratorii sporud dlya ptitsi "Ukrndiprosil'gospu."
(Ukraine--Poultry houses and equipment)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

PINCHUK, Mariya, zvenevaya; ROZANOVICH, Sasha [Razanovich, Sasha]; ZHOGAL', Matrena [Zhohal', Matruna]

A field crew of close friends. Rab.i sial. 37 no.9:8-9 S '61. (MIRA 14:10)

(Stolin District--Women as farmers)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGIN, I.I.

Variant proof of a theorem from the theory of continued fractions.
Usp.mat.nauk 12 no.3:321-322 My-Je '57. (MIRA 10:10)
(Fractions, Continued)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGIN, V.M., KYUR, R. YA.

Forging

Making forgings on forging machines without loss of metal incidental to clamping. Avt.trakt.prom., no. 7, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, NOVEMBER 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGIN, I.I. (Shadrinsk)

Notes on the theory of functions and number theory. Mat. pros. no.3:147-155 '58. (MIRA 11:9)
(Functions) (Numbers, Theory of)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGINA, I.I.

Generalizing the series for the natural logarithm of two. Mat. pros. no.2:186 '57. (MIRA 11:7)
(Series)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGIN, I.I. (Shadrinsk)

Averages. Mat.pros.no.6:217-226 '61. (MIRA 15:3)
(Functions, Continuous)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGIN, I.I. (Shadrinsk); TIMOFEYEV, V.P. (Shadrinsk)

D.I.Mendeleev and the Ural Society of Amateur Naturalists.
Vop.ist.est.i tekh. no.12:176-178 '62. (MIRA 15:4)
(Mendeleev, Dimitrii Ivanovich, 1834-1907)
(Ural Mountains--Nature study--Societies, etc.)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

SOV/137-58-10-21369

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 131 (USSR)

AUTHORS: Kaznachey, B. Ya., Zhogina, V. M.

TITLE: Electrolytic Preparation of a Nickel-cobalt Alloy With Given Magnetic Characteristics (Elektroliticheskoye polucheniye splava nikel'-kobal't s zadannymi magnitnymi kharakteristikami)

PERIODICAL: Tr. Vses. n.-i. in-ta zvukozapisi, 1957, Nr 1, pp 79-90

ABSTRACT: A technique was developed for the preparation of a non-porous, uniformly thick, and structurally homogeneous electrolytic Ni-Co coating with magnetic characteristics (coercive force of 200 - 300 oersted and residual induction of 5000 - 6000 gauss), which would satisfy the demands for magnetic sound recording. The optimum conditions for the process are adduced.

N. P.

1. Cobalt-nickel alloy coatings--Preparation
2. Cobalt-nickel alloy coatings--Magnetic properties

Card 1/1

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18-1140 also 1087, 1160

S/081/61/000/008/008/017
B110/B203

AUTHORS: Kaznachey, B. Ya., Zhogina, V. M.

TITLE: Electrodeposition of highly coercive alloys

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 8, 1961, 336, abstract 8K199 (8K199) (Tr. Vses. n.-i. in-ta zvukozapisi, 1959, vyp. 6, 119-135)

TEXT: The authors indicate the electrolytic compositions as well as the deposition conditions of Co-Ni-P and Co-W alloys. They investigate the effect of composition and conditions of electrolysis on the properties of the alloys. They found that the presence of NH_4 and $NaPO_2$ in the solution was necessary for making a highly coercive alloy. [Abstracter's note: Complete translation.]

Card 1/1

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGINA, V.M.

p.3

SOV/77-4-2-15/18

23(4) 23 (5)

AUTHOR: Lyalikov, K.S.

TITLE: Successes of Soviet Electrophotography (Uspekhi sovetskoy elektrofotografii) i Scientific and Technical Conference on Questions of Electrography (Nauchno-tekhnicheskaya konferentsiya po voprosam elektrografii)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol 4, Nr 2, pp 149-152 (USSR)

ABSTRACT: This is an account of a scientific and technical conference on electrography, the first to be held in the Soviet Union and evidently in the world. It was organized in Vil'nyus on December 16-19, 1958 by the Soviet narodnogo khozyaystva Litovskoy SSR (Council for National Economy of the Lithuanian SSR), the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta ministrov Litovskoy SSR (State Scientific and Technical Committee of the Council of Ministers of the Lithuanian SSR) and the Nauchno-issledovatel'skiy institut elektrografii (Scientific Research Institute of Electrography). The conference, attended by over 300 scientific workers, was opened by the Deputy Chairman of the Council for National Economy of the Lithuanian SSR P.A. Kul'vets, after which the director of the Institute for Electrography, I.I.Zhilevich, reviewed the state and prospects for development of electrography in the USSR. He stated that research in this field should be carried out along the following lines: a) a search for new photo-active materials with high dark resitance; b) physical research into the internal photoeffect; c) development of photosemiconductor layers; d) development of the theory of the electrophotographic process. K.S. Lyalikov (speaking also for O.G. Popova) gave a report in which he suggested determining the light sensitivity of electrophotographic layers in GOST units. R.Z. Plavina (speaking also for I.I.Zhilevich, L.I.Hyun'ko, N.N.Markevich, B.I. Kalinauskens and O.M. Suveyzdis) reported on some research on the sensitization of a semiconductor in electrophotographic layers. V.M. Fridkin gave a report on highly sensitive electrophotographic layers and an electrophotocopying device, and reviewed the formation process of the latent electrophotographic image on the basis of the zonal theory. He also described the design of an electrosensitometer for determining sensitivity by the relaxation period of a charge on the surface of the layer, and the circuit of an electrophotographic copying device. Anfilov finished describing the latter and then spoke on the mechanics and kinetics of the development of the latent electrophotographic image in liquid developers.

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SOV/77-4-2-15/18

Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

K.M. Vinogradov described some of the features of the cascade and liquid methods of electrophotographic development. Yu.Ye. Karpeshko devoted his report to the criterion of light sensitivity of the elctrophotographic process. After the reports, a discussion took place on methods of determining the light sensitivity of electrophotographic layers. A.N. Chernyshev spoke on the prospects of developing polygraphic processes using electric and magnetic forces. O.V. Gromov (speaking also for I.I. Zhilevich, A.A. Sukhiy, V.A. Gordeyeva, A.S. Pauzha and Yu. I. Kevalaytis) reported on the development of elctrophotographic reproducing equipment. A.S. Pauzha (speaking also for I.I. Zhilevich, A.S. Borisovich, N.M. Gal'vidiks and M.I.Rautkauskas) reported on the use of electrographic methods in recording oscillographs and other recording instruments.

V.P. Yurchenko (speaking also for L.N.Balin) spoke on the possibility of electrophotographically recording images from electron-beam tubes. L.S. Korol' (speaking also for M.M. Markevich, T.I. Kozlovskaya, B.I. Kalinauskene, M.K. Maynens, I.I. Zhilevich and E.A. Kontrimas) gave a detailed description of laboratory and machine methods of producing photosemiconductor papers (zinc oxide was used). A.A. Sukhiy (speaking also for I.I. Zhilevich, O.V. Gromov, V.A. Gordeyev, N.V. Fedotov and T.N. Ger) described a laboratory and industrial machine for producing photosemiconductor papers. T.A. Shishkina (speaking also for Ya.A. Oksman) reported on a method of examining electrophotographic materials using an a/c bridge. S.I. Khotyanovich (speaking also for A.I. Gikens and I.S. Shilevkens) spoke on developing materials for electrophotography and ferromagnitography, including developers giving a "reverse" image. B.I. Tikhonov reviewed methods of measuring the electrostatic potentials of electrophotographic layers, stressing that the oscillating electrode should not be placed above a layer with varying potential as this causes self-discharge. E.V. Krukovskis (speaking also for R.G.Gorevoy, A.N.Osipov and Ye. S. Kheyfets) spoke on the practice of producing velveteen papers in an electrostatic field, and showed samples produced by the Grigishskiya paper factory. Ye.L. Nemirovskiy then gave a historical review of the development of electrographic methods in which he paid tribute to the work of the Scientific Research Institute of Electrography in Vil'nyus and the Institut poligraficheskogo mashinostroyeniya (Moskva)-(Polygraphic Machine-Building Institute (Moscow)). Debates were then held

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on methods of measuring the potential of charged electrophotographic layers; the vibration pick-up most-used was shown in B.I. Tikhonov's report to be not always accurate. S.G.Grenishin stated that the bad influence of the oscillating electrode can be eliminated if the electrode probe above its surface is fixed and the pick-up is connected to it by a shielded cable. In the debate on Ye.L. Nemirovskiy's report it was stated that the research of Academicians A.N. Terenin and Ye.K. Putseyko should be considered as the basis of all work on electrophotographic papers with ZnO, as they were the first to show the possibility of optical sensitization of the internal photoeffect in ZnO. M.M.Gol'vidis then gave a report on the depositing of charges by a corona discharge. A.I. Kaminskas and A.P. Yagulis reviewed some of the results of the use of electrographic methods in radiography. L.I. Nyun'ko (speaking also for I.I. Zhilevich, I.Z. Plavin, Yu.K. Vishchakas and Yu.A.Zibuts) reported on relaxation processes in semiconductor layers, using a vibration electrometer. Yu.K.Vishakas gave a report on research on some physical properties of the polycrystalline layers of selenious cadmium. M.P. Mikalkyavichyus spoke on some of the photoelectric properties of Sb_2S_3 and Sb_2Se_3: the absorption maximum of the latter is about 900 m μ. S.M. Neyman reported on methods of obtaining selenium light-sensitive layers, including sublimation and thermal treatment; it was also found that the sensitivity of the layers increased after storage for 1.5 to 2 months at room temperature. P.M. Podvigalkin (speaking also for S.G.Grenishin) spoke on research into the electrical properties of electrophotographic layers of amorphous selenium and powdered zinc oxide. N.K. Shiktorov (speaking also for A.D. Tauraytis) discussed the production of selenium layers and some of their properties. Finally the following reports on ferromagnetography were delivered: 1) B.Ya. Kaznacheyev, V.M.Khogina, "Electrodeposition of Magneto-Hard Alloys With Given Magnetic Characteristics" 2) M.T.Arutyunov, "Visualization of Magnetic Oscillograms by the Ferrographic Method" 3) V.T.Patrunov, "Ferrographic Recording of Facsimile Images" 4) I.I.Zhilevich, I.I. Gills, B. Ye. Buchek, I.I. Kaynise, A.K.Kishis, "Mock Experiments in Non-Pressure Ferromagnetic Printing". There was also an exhibition showing the work of the Electrographic Institute. The most important conclusion of the conference was that a solid approach had been made to the possibility of wide technical use of the methods of electrography. It was considered that although work in this field actually started only in 1955-56 it has covered as much ground as the USA in 10 years. While admitting that it was easier to reproduce results already achieved than to be the first to arrive at them, the conference observed that the Americans took good care that no important information appeared in the literature available.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Ca

Preparation of vanadium from aegirine. M. B. Zapadinskii and V. M. Zhuzina. *Tsvetnuie Metal.* 1932, No. 5/6, 68-73.—Extn. of V with acids is too low because of low solv. of aegirine. Roasting with addn. of 15% of chalk or lime at 850-950° followed by treatment with acid resulted in 80-90% recovery. Pure iron vanadate was obtained by adding Fe and neutralizing the soln., but the ratio V:Fe was too low, and the process can be applied only to ores with low P content. For high-P ores a method was developed whereby all the V is sepd. from Fe to obtain V_2O_5. Charge roasted with lime or chalk is dissolved in HCl, the soln. neutralized with CaO, and the ppt. treated with ammonia. By this treatment 92-95% of the V is extd. The soln. is then evapd. to dryness to obtain V_2O_5. The ammoniacal solns. are free from P, Al, Fe, etc., and contain only a small amt. of SiO_2 and traces of Ca. B. N. Daniloff

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

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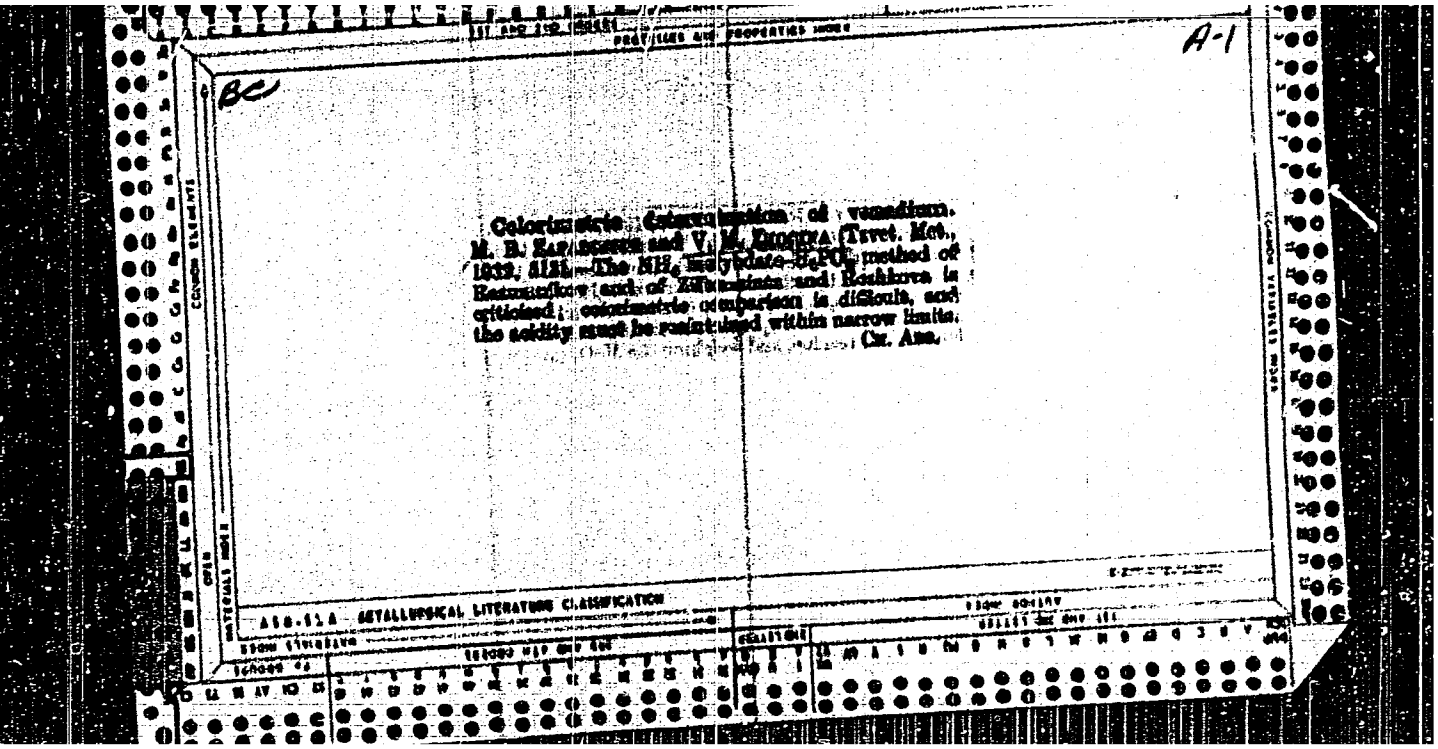

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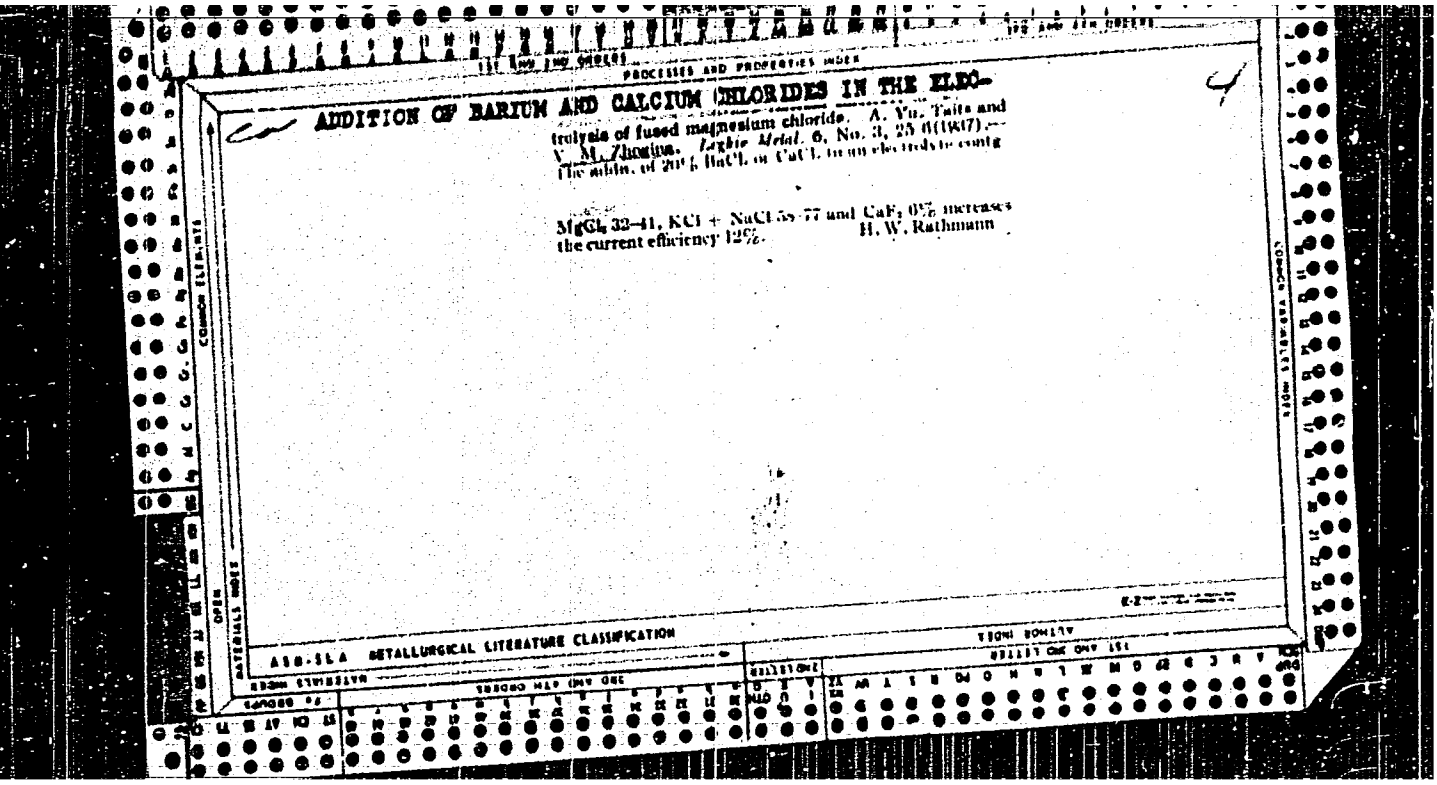

ADDITION OF BARIUM AND CALCIUM CHLORIDES IN THE ELEC-

trolysis of fused magnesium chloride. A. Yu. Taits and V. M. Zhuniu. *Legkie Metal.* 6, No. 3, 25 ff(1937).—The addn. of 20% BaCl$_2$ or CaCl$_2$ to an electrolyte containing MgCl$_2$ 33–41, KCl + NaCl 59–77 and CaF$_2$ 0% increases the current efficiency 12%. H. W. Rathmann

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A58-SLA METALLURGICAL LITERATURE CLASSIFICATION

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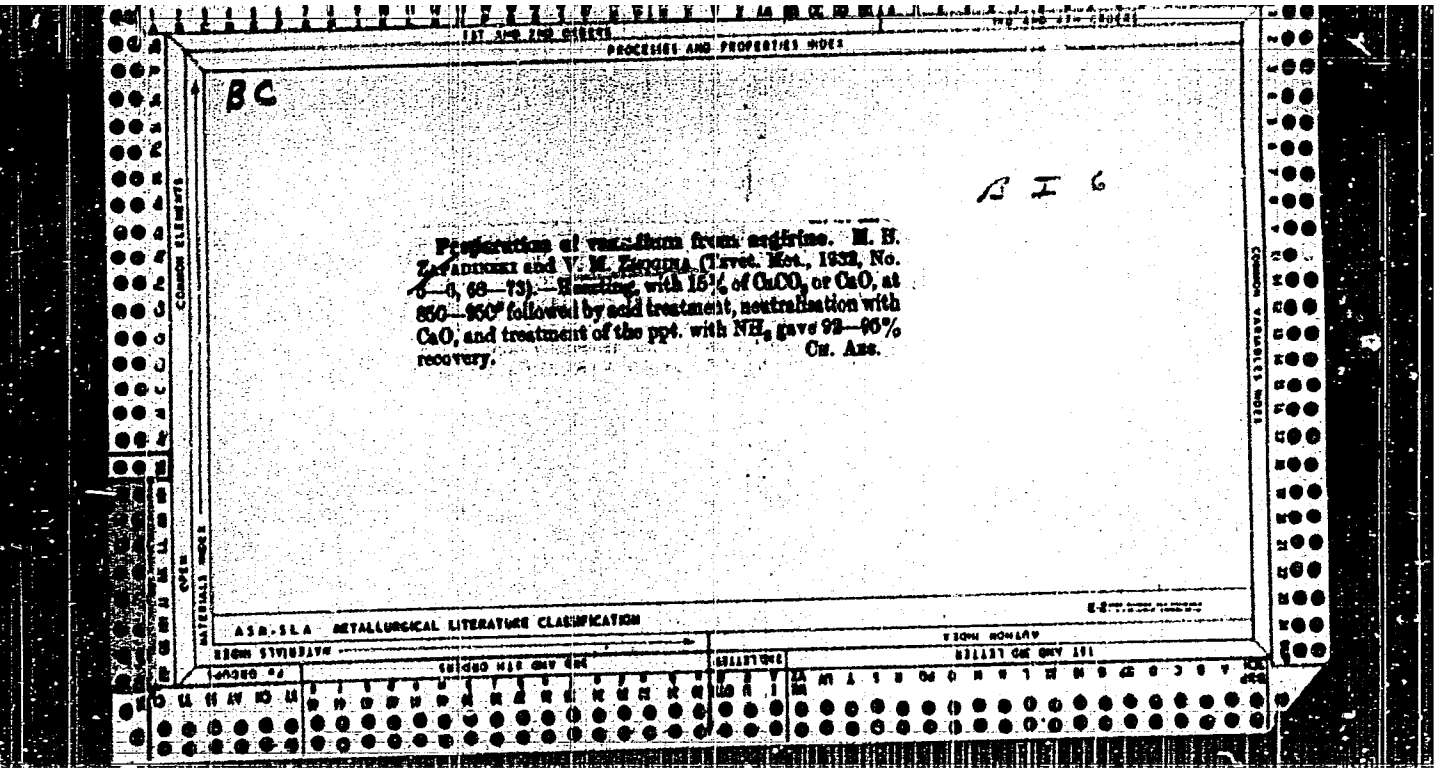
CN

Colorimetric determination of vanadium. M. B. Zapadinskii and V. M. Zhogina. *Tsvetnuie Metal.* 1932, 513.—Defects of the colorimetric method proposed by Razumnikov (*Mineral. Suir'e*, No. 6, 489(1930)) and modified by Zilbermintz and Rozhkova (*C. A.* 22, 1558) by means of NH_4 molybdate and H_3PO_4 are pointed out. Because of the high Mo content in the standard solns. recommended by the above investigators, a yellow color appears even in the absence of V, apparently owing to the formation of a compd. of Mo and P. The acid concn. affects the color very greatly, and the necessity of maintaining the acidity within narrow limits is a disadvantage in analyzing solns. of varying acidities. The presence of chlorides, contrary to the statement of the inventors of the process, had no influence on the accuracy of the detn. The changes in the intensity of green and yellow color due to varying V content are not very well adapted for colorimetric comparison. B. N. Daniloff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8



BC

B I 6

Preparation of vanadium from sulfirine. M. B. ZAPADINSKII and V. M. ZIYGINA. (Tsvet. Met., 1932, No. 5—6, 68—73). Sulfirine, with 15% of $CaCO_3$ or CaO, at 850—950° followed by acid treatment, neutralisation with CaO, and treatment of the ppt. with NH_3 gave 92—95% recovery. Cu. Abs.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

S/081/61/000/024/051/086
B107/B110

AUTHORS: Kaznachey, B. Ya., Zhogina, V. M., Pochtareva, V. I.

TITLE: Effect of the electrolysis conditions on the shape of the hysteresis loop in the electrodeposition of magnetically hard alloys

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1961, 344 - 345, abstract 24K132 (Tr. Vses. n.-i. in-ta zvukozapisi, no. 8, 1961, 61 - 86)

TEXT: The production conditions of magnetically hard alloys (Co - Ni, Co - Ni - P and Co - W) with a widely varying range of the magnetic properties (coercive force 100 - 80 oe, residual induction up to 6000 gauss) were studied. The orthogonality of the hysteresis loop can be changed by changing the electrolysis conditions (temperature, pH, current density and velocity of rotation of the cathode). It was impossible, however, to obtain deposits with an orthogonality close to 1. The orthogonality of the hysteresis loop of the deposits obtained is reduced under the follow-

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Effect of the electrolysis ...

ing conditions: For Co - Ni if the solution temperature is above 60°C; for Co - Ni - P if the current density decreases below 5 a/dm^2; furthermore, if pH exceeds 5 and if the solution temperature is below 40°C or above 60°C; for Co - W if the temperature is below 40° or above 70°C. Furthermore, for a pH below 3. [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGINA V. M.

TIMAKOV, A. V.

PHASE I BOOK EXPLOITATION SOV/2216

5(4)

Soveshchaniye po elektrokhimii. 4th, Moscow, 1956.

Trudy...: [sbornik] (Transactions of the Fourth Conference on Electrochemistry: Collection of Articles) Moscow, Izd-vo AN SSSR, 1959. 868 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk.

Editorial Board: A.N. Frumkin (Resp. Ed.) Academician, O.A. Yesin, Professor; S.I. Zhdanov (Resp. Secretary); B.N. Kabanov, Professor; S.I. Zhdanov (Resp. Secretary); B.N. Kabanov, Professor; Ya. M. Kolotyrkin, Doctor of Chemical Sciences; V.V. Losev, P.D. Lukovtsev, Professor; Z.A. Solov'yeva; V.V. Stender, Professor; and G.M. Florianovich; Ed. of Publishing House: N.G. Yegorov; Tech. Ed.: T.A. Prusakova.

PURPOSE: This book is intended for chemical and electrical engineers, physicists, metallurgists and researchers interested in various aspects of electrochemistry.

COVERAGE: The book contains 127 of the 138 reports presented at the Fourth Conference on Electrochemistry sponsored by the Department of Chemical Sciences and the Institute of Physical Chemistry, Academy of Sciences, USSR. The collection pertains to different branches of electrochemical kinetics, double layer theories and galvanic processes in metal electrodeposition and industrial electrolysis. Abridged discussions are given at the end of each division. The majority of reports not included here have been published in periodical literature. No personalities are mentioned. References are given at the end of most of the articles.

Agladze, R.I. Hydrometallurgical Production of Manganese and Chromium 493

Vilov, F.S., and Z.A. Tubyshkina (Institut tsvetnykh metallov i splavov imeni M.I. Kalinina-Institute of Nonferrous Metals and Gold imeni M.I. Kalinin). Cathodic Process During the Deposition of Tin From Halogen Electrolytes 498

Kolyukarov, M.M. (Permskiy Gosudarstvennyy universitet-Perm' State University). Hydrogen Absorption by Steel Cathodes in the Metal Electrodeposition Process 502

Zhogina, V.M., and B. Ya. Kaznacheyev. Electrodeposition of Rare Magnetic Alloys 506

Kudasov, Yu.I., and A. Kh. Pasik (Pedagogicheskiy institut Institut sovetskoy torgovli-Khar'kov-Pedagogical Institute of Soviet Trade). Mechanism of Electrolytic Deposition of Metals Onto a Passivated Surface 512

Card 20/ 34

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

SOV/137-58-9-19582

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 208 (USSR)

AUTHORS: Kaznachey, B.Ya., Zhogina, V.M.

TITLE: Electrolytic Deposition of Highly Coercive Nickel-cobalt Alloy (Elektroosazhdeniye vysokokoertsitivnogo splava nikel'-kobal't)

PERIODICAL: Tr. Vses. n.-i. in-ta zvukozapisi, 1957, Nr 1, pp 91-93

ABSTRACT: The effect of the conditions of electrolysis on the properties of coatings of an Ni-Co alloy with H_c = 500-800 oersted and a residual induction of 4000-5000 gauss was investigated and a technique for producing them was developed. The electrolytic deposition of the alloys was conducted in a solution of the following composition: (in g/ℓ) : $NiCl_2 \cdot 6H_2O$ 120, $CoCl_2 \cdot 6H_2O$ 120, NH_4Cl 100, NaH_2PO_2 9. Upon the increase of the cathode cd from 1 to 20 amp/dm^2, H_c of the deposit increases. Optimum results are obtained at a cathode cd of 10-15 amp/dm^2. Upon an increase of the temperature of the electrolysis from 20 to 90°C the magnetic properties of the alloy pass through a maximum at 40-60°. At pH = 1.0-4.5 the alloy deposited has strong magnetic properties; at pH > 5 H_c of the alloy decreases.

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SOV/137-58-9-19582

Electrolytic Deposition of Highly Coercive Nickel-cobalt Alloy

Upon an increase in the concentration of NaH_2PO_2 H_c increases to maximum values of 600-700 oersted and then, beginning with 13 g/l, it decreases. In a pilot-plant bath Ni-Co alloy was deposited on a drum during its rotation and in the presence of screens. The density of the recording and the amplitude of the outgoing signal of the Ni-Co alloy #2 obtained are equal in value to the powder coating 101, whereas it surpasses it in mechanical properties.

N.K.

1. Cobalt-nickel alloys---Electrodeposition 2. Electrolytes--Properties 3. Electrolysis --Effectiveness

Card 2/2

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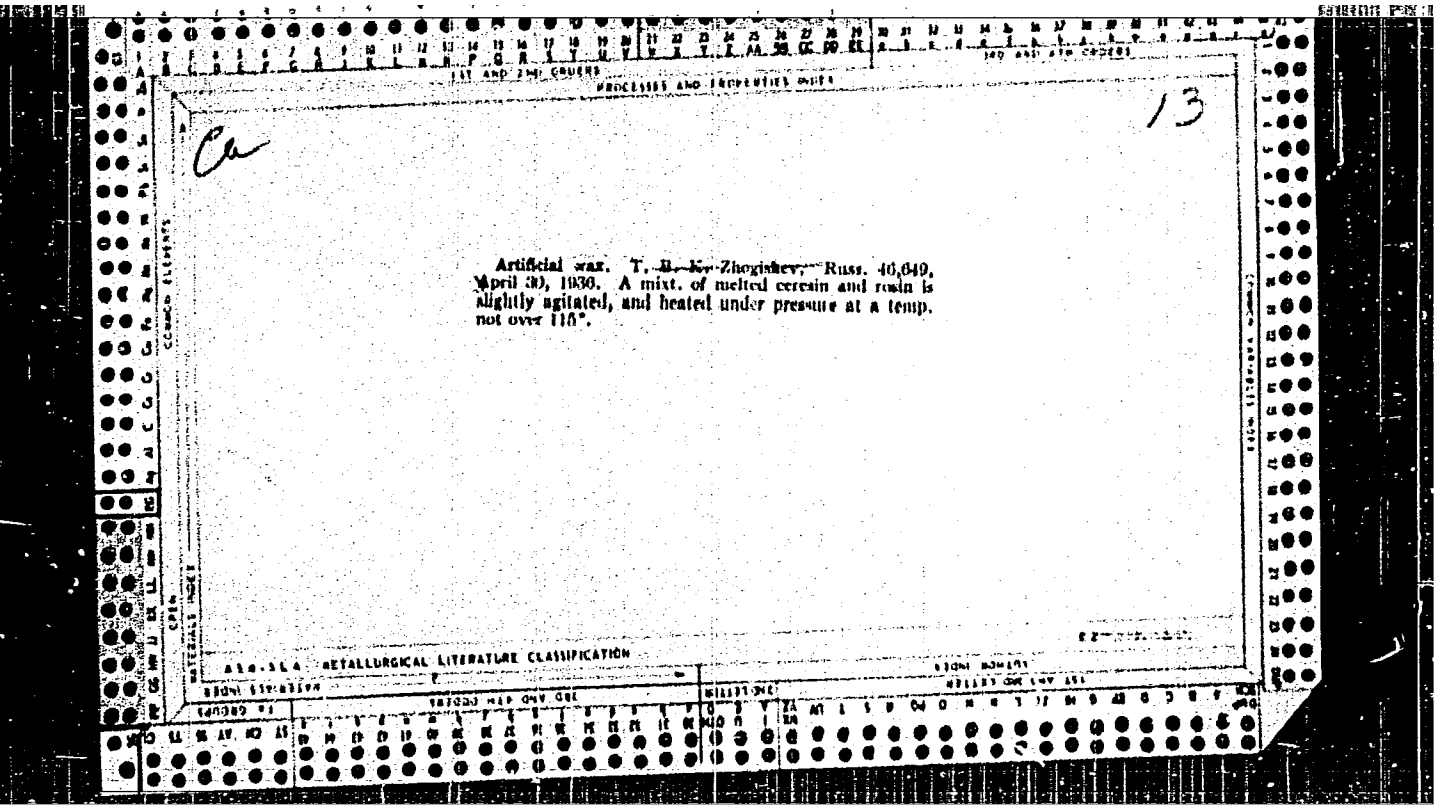

Ca

13

Artificial wax. T. [illegible] Zhegishev, Russ. 46,649, April 30, 1936. A mixt. of melted ceresin and resin is slightly agitated, and heated under pressure at a temp. not over 110°.

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

GRIBOV, L.A.; ZHOGINA, V.V.

Use of electronic computers in solving problems involving oscillations of polyatomic molecules. Opt. i spektr. 17 no.6:832-837 D '64. (MIRA 18:3)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

KHODAKOVSKIY, I.L.; ZHOGINA, V.V.; RYZHENKO, B.N.

Dissociation constants of hydrosulfuric acid at elevated temperatures. Geokhimiia no.7:827-833 Jl '65. (MIRA 18:11)

1. Institut geokhimii i analiticheskoy khimii imeni V.I. Vernadskogo AN SSSR, Moskva. Submitted February 20, 1965.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

GUSYAKOV, V.P. [Husiakov, V.P.]; ZHOGLO, F.A. [Zholo, F.A.]

Preparation and properties of ethyl ester of oleic acid. Farmatsev. zhur. 17 no.3:28-34 '62. (MIRA 17:10)

1. Kafedra obshchey khimii L'vovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

79-28-5-35/69

AUTHORS: Baranov, S. N., Zhoglo, F. A., Vizgert, R. V.

TITLE: Synthesis of Some Esters of the 4,4'-Dioxydiphenylsulfone and of Carboxylic Acids (Sintez nekotorykh slozhnykh efirov 4,4'-dioksidifenilsul'fona i karbonovykh kislot)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5, pp. 1274 - 1276 (USSR)

ABSTRACT: The authors aimed at synthetizing the full esters of the 4,4'-dioxydiphenylsulfone and of some carboxylic acids of the aliphatic, aromatic and heterocyclic series. In references there are remarks concerning the synthesis of the esters of 4,4'-dioxydiphenylsulfone by its condensation with acids in the presence of phosphoroxychloride (Reference 3). The same method was used here. The products necessary for the synthesis were taken "ready made" or according to the methods described in references. The purity was checked according to chemical constants and in some cases also analytically. For the synthesis of the esters the dry dioxydiphenylsulfone was carefully crushed with the acid (1 part

Card 1/3

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

Synthesis of Some Complex Esters of the 4,4'-Dioxydiphenylsulfone and of Carboxylic Acids

sulfone: 2 parts acid), the mixture was heated in the flask to 120 - 140°C and into this the calculated amount of phosphoroxychloride was added in drops. The whole was heated to the complete removal of hydrogen chloride, then cooled and treated with 5% soda solution; the organic and inorganic acids, as well as the above-mentioned sulfone which did not enter reaction, were removed. The final product, the ester, was recrystallized. Furthermore the ester of the α-bromisovalerianic acid and of the dioxydiphenylsulfone were obtained on heating the bromoanhydride of the same acid with the sodium salt of the dioxydiphenylsulfone. All synthetized esters are white or light-yellow powdery products; they are difficult to dissolve in water and easily soluble in alcohol, acetone and dioxane. They hydrolize on heating with 10% alkali solution. The properties of the 14 synthetized esters are mentioned in a table. There are 1 table and 4 references,

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

79-28-5-35/69

Synthesis of Some Complex Esters of the 4,4'-Dioxydiphenylsulfone and of Carboxylic Acids

1 of which is Soviet.

ASSOCIATION: L'vovskiy meditsinskiy institut (L'vov Medical Institute)

SUBMITTED: March 27, 1957

Card 3/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGLO, O.I., podpolkovnik med.sluzhby

Mass anthelminitic treatment with piperazine adipinate in ascariasis and trichocephaliasis. Voen.-med.zhur. no.10:91-92 O '61. (MIRA 15:5)

(ASCARIDS AND ASCARIASIS) (TRICHOCEPHALIASIS, (PIPERAZINE)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGLO, O. I. (Lieutenant Colonel of the Medical Service)

"Experience in Mass Dehelminthization with Piperazine Adipate for Ascariasis and Trichocephaliasis"

Voyenno-Meditsinskiy Zhurnal, No. 10, October 1961

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

L 22905-66 EWT(d)/EWT(1)/EPF(n)-2 IJP(c) WW/GG

ACC NR: AP6006865 SOURCE CODE: UR/0181/66/008/002/0601/0602

AUTHOR: Dolgopolov, D. G.; Zhogolev, D. A.

ORG: Physicotechnical Institute of Low Temperatures, AN UkrSSR, Khar'kov (Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR)

TITLE: Temperature dependence of the moments of EPR lines

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 601-602

TOPIC TAGS: epr, epr spectrum, temperature dependence, dipole interaction, electron spin, crystal lattice, line broadening, resonance line, nuclear magnetic resonance

ABSTRACT: The authors present formulas for the moments of the principal resonance line, relative to the Larmor frequency ω_0, which are valid in a wider temperature range than previously published. The formulas are limited to the case of dipole interaction of identical spins in a rigid lattice. Formulas for the temperature dependence of the moments are also given. At high temperatures ($\alpha \ll 1$, where $\alpha = \gamma\hbar H_0/kT$, other symbols standard) the first moment is linear in α in first approximation, and the second moment coincides in zeroth order in α with the expression given by Van Vleck (Phys. Rev. v. 74, 1168, 1948). The results show that the

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ACC NR: AR6006865

dipole interaction of the spins brings about not only broadening, but a shift of the resonance line, which decreases with increasing temperature and is linear in α at high temperatures, approaching a certain finite value at low temperatures. The width of the resonance line increases exponentially at low temperatures and reaches saturation at high temperatures. It is noted in conclusion that the first moment differs noticeably from zero in anisotropic crystals or very thin films. The temperatures at which these effects come into play are determined by the condition $\alpha \approx 1$, and are 10K for EPR and ≈0.01K for NMR. Orig. art. has: 4 formulas.

SUB CODE: 20/ SUBM DATE: 21May65/ ORIG REF: 001/ OTH REF: 002

Card 2/2 BLG

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGLOV, I.

Promote the modernization of equipment. NTO 2 no.2:35 F '60.
(MIRA 13:5)

1. Brigadir skorostnoy prokhodcheskoy brigady Achisayskogo rudnika.
(Achisay--Mining engineering--Technological innovations)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOL', L.Ye., nauchnyy sotrudnik

Wider range and better quality of upholstery fabrics. Tekst.prom. 18 no.10:12-14 O '58. (MIRA 11:11)

1. Akademiya stroitel'stva i arkhitektury.
(Textile fabrics) (Upholstery)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOL', L. Ye., nauchnyy sotrudnik

New decorative fabrics. Tekst. prom. 23 no.3:9-12 Mr '63.
(MIRA 16:4)

1. Akademiya stroitel'stva i arkhitektury UkrSSR.

(Textile fabrics) (Interior decoration)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, A.

Accounting

Limiting the expenditure of materials in production, Bukhg. uchet No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, A.L.

Experiment in finish sawing the Kremenchug Woodworking Combine.
Der.prom. 10 no.5:21-23 My '61. (MIRA 14:5)
(Kremenchug--Woodworking industries) (Saws)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, A.L., inzh.

Automatic mixing units for the manufacture of wood fiber boards.
Der. prom. 8 no.8:10-12 Ag '59. (MIRA 12:12)

1.Kremenchugskiy derevoobrabatyvayushchiy kombinat.
(Wood, Compressed)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ACC NR: AP7005750 SOURCE CODE: UR/0126/67/023/001/0023/0027

AUTHOR: Dolgopolov, D. G.; Zhogolev, D. A.

ORG: Physico-Technical Institute of Low Temperatures, AN UkrSSR (Fiziko-Tekhnicheskiy institut nizkikh temperatur AN UkrSSR)

TITLE: Isotopic differences in the Knight shift

SOURCE: Fizika metallov i metallovedeniye, v. 23, no. 1, 1967, 23-27

TOPIC TAGS: The difference in Knight shifts for two isotopes of the same metal is estimated as a function of the following factors: a) difference in lattice constants; b) electron-phonon interaction; c) difference in magnetic moments of the nuclei. The change in the Knight shift due to changes in the lattice constant is determined from the premise that the Knight shift is roughly proportional to the paramagnetic susceptibility of electron gas. The effect of electron-phonon interaction is considered with the aid of methods of the quantum field theory. And the effect of differing magnetic moments of the nuclei of the isotopes is considered from the standpoint of their influence on the magnetic interaction between the electron and the nucleus. It is shown that the relative differences in the lattice constants and nuclear magnetic moments of the isotopes are extremely small. As for the effect of electron-phonon interaction on the

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ACC NR: AP7005750

relative Knight shift k, the available experimental and theoretical findings show that for rubidium (isotopes Rb^{85} and Rb^{87}) $k^{85}/k^{87} - 1 = 0.38 \pm 0.03\%$, i.e. Δk is negative; for the lithium isotopes Li^6 and Li^7 we have $k^6/k^7 - 1$, i.e. again $\Delta k < 0$. The observed negativeness of Δk gives reason to believe that the experimentally recorded isotopic differences in the Knight shift for two isotopes of the same metal are chiefly conditioned by phonon-electron interaction. "The authors are indebted to I. O. Kulik for his interest in and valuable discussion of this project." Orig. art. has: 11 formulas.

SUB CODE: 07, 20 SUBM DATE: 11May66/ ORIG REF: 006/ OTH REF: 006

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, D.T.

Studying bloodsucking dipterans of Transcarpathia by the use of light traps. Nauk. zap. UzhGU 40:151-159 '59. (MIRA 14:4)

1. Kafedra Obshchey biologii i parazitologii imeni akademika Ye.N. Pavlovskogo Voyenno-meditsinskoy akademii imeni S.M.Kirova.
(Transcarpathia--Diptera) (Insect traps)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, D. T. Cand Med Sci -- "Methods of collecting and calculating the numbers of sanguinovorous dipterous insects in the practice of sanitary-epidemiological determination." Len, 1961 (Min of Health RSFSR. Len Sanitary-Hygienic Med Inst). (KL, 4-61, 208)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, D.T.

Light traps for the collection and study of insects acting as carriers of disease. Ent. oboz. 38 no.4:766-773 '59 (MIRA 13:3)

1. Voyenno-meditsinskaya ordena Lenina Akademiya im. S.M. Kirova, kafedra biologii s parazitologiyey im. akad. Ye. N. Pavlovskogo, Leningrad.
(Diptera) (Insect traps)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, D.T., mayor meditsinskoy sluzhby

Light trap for insects. Voen.-med. zhur. no.7:88 Jl '61.
(MIRA 15:1)

(INSECT TRAPS)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, D.T., kand. med. nauk

Abundance of mosquitoes in some regions of the Crimean peninsula.
Voen.-med.zhur. no.9:47-49 '64. (MIRA 18:5)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, D.T.

Effect of the blood of Vipera lebetina L. on ticks of the genus Ornithodorus. Zool. zhur. 44 no.9:1422-1423 '65.
(MIRA 18:10)

1. Kafedra obshchey biologii s parazitologiyey Voyenno-meditsinskoy akademii imeni S.M. Kirova, Leningrad.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, I.

Valuable suggestions. Mast. ugl. 7 no.11:19-20 N '58.
(MIRA 11:12)
(Coal mines and r ing--Equipment and supplies)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, I. M.

"Investigation of the Optimum Conditions of Loading of the DT-54 and ASKhTZ-NATI Tractors on Virgin Soil and Old Arable Lands of Altayskiy Kray." Cand Tech Sci, Chelyabinsk Inst of Mechanization and Electrification of Agriculture, Min Higher Education USSR, Chelyabinsk, 1955. (KL, No 10, Mar 55)

/ So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, I.M.

Fallow plowing and fall plowing at higher speeds on new and idle lands. Sel'khozmashina no.2:5-8 F'55. (MLRA 8:3)
(Plowing)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, I.N.

Experience in the automatization and mechanization of mining operations in Kuznetsk Basin mines. Ugol' 36 no.1:49-50 Ja '61. (MIRA 14:1)

1. Dom tekhniki tresta Kuybyshevugol'.
(Kuznetsk Basin--Coal mining machinery)
(Automatic control)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, L. P.

Nomogram for calculating the vector of residual magnetization. Razved. i okh. nedr 28 no.6:52-53 Je '62. (MIRA 15:10)

1. Kazakhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta razvedochnoy geofiziki.

(Rocks—Magnetic properties)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, L.P.

ZHOGOLEV, L.P.

Determining the depth of magnetized bodies by magnetic potential higher derivatives. Vest. LGU 12 no.2:48-59 '57. (MIRA 11:2)
(Prospecting--Geophysical methods)
(Magnetism, Terrestrial)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, L.P.

Square-lined transparent sheets for determining the elements of magnetized bodies by means of the highest derivatives of the magnetic potential. Uch. zap. LGU no.249:237-242 '58. (MIRA 11:5)
(Magnetism, Terrestrial) (Prospecting--Geophysical methods)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

SMELOV, A.A.; ZHOGOLEV, L.P.; KHABIBULLINA, R.I.

Natural residual magnetism of rocks. Uch.zap.IGU no.303:245-266 '62. (MIRA 15:11)

(Kazakhstan—Rocks—Magnetic properties)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, I.P.; SMELOV, A.A.; KHABIBULLINA, R.I.

Use of mathematical statistics in studying the physical properties of rocks. Vop. razved. geofiz. no.3:164-180 '64.

(MIRA 18:2)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, L.P., MIRONOV, V.S.

Large-scale gravity and magnetic surveys for geological mapping in the Rudnyy Altai. Uch. zap. LGU no.278:66-82 '59.
(MIRA 13:2)
(Altai Mountains--Prospecting--Geophysical methods)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

BARINOV, Ye.A.; ZHOGOLEV, L.P.

Equipment for measuring the residual magnetization of rock samples. Trudy VITR no.3:268-275 '61. (MIRA 15:7)
(Magnetic prospecting)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

S/169/62/000/008/002/090
E202/E192

AUTHORS: Barinov, Ye.A., and Zhogolev, L.P.

TITLE: Instrument for measuring residual magnetisation of rock samples

PERIODICAL: Referativnyy zhurnal, Geofizika, no.8, 1962, 9, abstract 8 A 42. (Tr. Vses. n.-i. in-ta metodiki i tekhn. razvedki, no.3, 1961, 268-275)

TEXT: An instrument for measuring residual magnetisation of samples in irregular forms is described. It comprises a magnetic system suspended on vertical tungsten filament and placed within the Helmholtz coil which serves as a compensator of the horizontal component of the Earth field. The instrument contains an optical metering system and the control desk. The working principle is identical with that used in operating the astatic magnetometer of B.M. Yanovskiy and B.T. Chernysheva. The sensitivity of the instrument is 2×10^{-6} CGSM. The calculation of error due to the shift of the magnetic centre of the sample is given.

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Instrument for measuring residual... S/169/62/000/008/002/090
E202/E192

The instrument is designated for work in middle latitudes, where there are small variations of horizontal component of the geomagnetic field, since this instrument is sensitive to heterogeneities in magnetic fields and variations in declination.

[Abstractor's note: Complete translation.]

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

YEFIMOV, V.F., inzh.; IVANOV, A.A., inzh.; LEYTIN, G.S., inzh.; PAVLOVA, Ye.S., inzh.; TSALIT, O.N., inzh.; ZHOGOLEV, V.S., inzh.

[Road and building machinery and mechanized building tools; catalog-reference book] Stroitel'nye i dorozhnye mashiny i mekhanizirovannyi stroitel'nyi instrument; katalog-spravochnik. Moskva, TSentr.biuro tekhn.informatsii Vniistroidormasha, 1958. 471 p. (MIRA 13:3)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennaya planovaya komissiya Rosglavtyazhmashenabsbyt. 2. TSentral'noye byuro tekhnicheskoy informatsii Vsesoyuznogo nauchno-issledovatel'skogo instituta stroitel'nogo i dorozhnogo mashinostroyeniya (TsBTI VNIIStroydormash)(for all).

(Building machinery) (Road machinery)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, YE. A.

"Experience of Working With the M-2 Machine Employing Automatic Scale Adjustment" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 8 Oct 56

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

16(1); 28(2) PHASE I BOOK EXPLOITATION SOV/2291

Zhogolev, Yevgeniy Andreyevich, Gennadiy Stepanovich Koslyakov, Nikolay Pavlovich Trifonov, and Mikhail Romanovich Shura-Bura, Professor

Sistema standartnykh podprogramm (System of Standard Subroutines) Moscow, Fizmatgiz, 1958. 230 p. (Series: Biblioteka prikladnogo analiza i vychislitel'noy matematiki) 8,000 copies printed.

Sponsoring Agency: Moskovskiy gosudarstvennyy universitet. Kafedra vychislitel'noy matematiki.

Ed. (Title page): Mikhail Romanovich Shura-Bura, Professor; Ed. (Inside book): Yu. M. Bezborodov; Tech. Ed.: S. N. Akhlamov.

PURPOSE: This book is intended for persons working in the field of computer mathematics as well as students specializing in this field and others interested in the problems of performing operations on high speed digital computers.

COVERAGE: The book is basically a description of a system of standard

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

subroutines which were applied at the Vychislitel'nyy tsentr (Computing Center) of Moscow State University in 1955-1956. The book consists of an introduction and two parts. In the introduction, principles of construction and operation of high speed digital computers and basic programming concepts and methods are discussed. In the first part is described the M-2 computer, located in the Laboratoriya upravlyayushchikh mashin i sistem (Control Machine and Systems Laboratory) of the Academy of Sciences, USSR, and built under the supervision of I. S. Bruk, Corresponding Member of the Academy. The peculiarities of programming and selecting a system of standard subroutines for this machine are discussed. In the second part of the book are found certain subroutines from the library suitable for the system selected. Although the subroutines have been selected with a specific machine in mind, the system as well as the algorithms can be completely and successfully applied to various automatic digital computers. These subroutines as well as the contents of the book were discussed at sessions of a seminar in which Academician S. L. Sobolev, Professor K. A. Semendyayev, and Docent I. S. Berezin took part together with coworkers of the Computer Center. The authors thank the latter for their valuable remarks, and also thank V. M. Vasil'yev and N. M. Yershova, both of the Computing Center at Moscow State University, for composing with

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

the authors the programs included in Chapter VII. They also thank Yu. M. Bezborodov for editing the book. There are 4 references: 2 Soviet and 2 English.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

PART II.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

System of Standard Subroutines

Bibliography

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

YE.A. ZHOGOLEV

16(1),16(2)

AUTHORS: Leonidov,K.S., and Rakova,E.S. SOV/42-14-1-27/27

TITLE: New Publications on Applied Analysis and Numerical Mathematics (Novyye izdaniya po prikladnomu analizu i vychislitel'noy matematike)

PERIODICAL: Uspekhi matematicheskikh nauk,1959,Vol 14,Nr 1,pp 261-265(USSR)

ABSTRACT: It is stated that in the USSR there exists no periodical on numerical mathematics and similar domains. The papers of these domains chiefly appear in the serie. "Publications on Applied Analysis and Numerical Mathematics" (IPAVM) and in single collected volumes. The series IPAVM began in 1955 and until now it contained the following monographies: 1. G.S.Salekhov "Calculation of Series"; 2. A.N.Khovanskiy "Application of Continued Fractions in the Approximate Analysis"; 3. V.S.Ryaben'kiy, A.F.Filippov "Stability of Difference Equations"; 4. G.S.Khovanskiy "Nomograms"; 5. S.M.Nikol'skiy "Quadrature Formulas"; 6. M.A.Kartsev "Arithmetic Devices of Electronic Digit Apparata"; 7. Yu.V. Vorob'yev "Momentum Method in Applied Mathematics"; 8. Ye.A. Zhogolev, G.S.Roslyakov, N.P.Trifonov, M.R.Shura-Bura "System of Standard-Subprograms".
There appeared the following collected volumes: "Numerical Mathematics and Computing Technics" (VMVT) since 1953, "Numerical Mathematics" (VM) since 1957, and "Computing Technics" (VT) since 1958. Until now two volumes of VMVT appeared with contributions of V.A.Ditkin, L.A.Lyusternik, A.I.Ivanova, A.A.Abramov, M.R. Shura-Bura, V.I.Shestakov, A.I.Vzorova, G.S.Khovanskiy, L.V. Bochek, Ye.N.Dekanosidze, L.N.Karamzina, V.K.Saul'yev, I.M. Stesin, M.A.Tesson, L.I.Gutenmakher, G.K.Kuz'minok, L.S.Klabukova. The published three volumes of VM contained contributions of L.A.Lyusternik, Yu.V.Vorob'yev, Ye.A.Volkov, V.K.Saul'yev, I.M.Stesin, A.I.Vzorova, [illegible], [illegible], S.P. Kapitsa, M.R.Shura-Bura, P.I.Chushkin, [illegible].N.Katskova, Yu.D. Shmyglevskiy, V.S.Linskiy, M.L. Rappoport, B.M.Drozdov, A.G.Gessen, V.S.Vladimirov, L.S.Klabukova, A.I.Vzorova, I.M.Sobol', V.K. Kabulov, O.M.Belotserkovskiy. The first volume of VT contains contributions of O.K.Shcherbakov, F.V.Mayorov, P.P.Golovistikov, Ye.A.Volkov, L.N.Korolev, N.Ya. Matyukhin, O.V.Rosnitskiy, Yu.N. Glukhov, Ye.I.Mamonov.
Besides in 1958 Yu.Ya.Basilevskiy edited the collected volume "Questions of the Theory of Mathematical Machines" ("Voprosy teorii matematicheskikh mashin") with contributions of Yu.Ya. Basilevskiy, I.Ya.Akushskiy, Yu.A.Shreyder, E.A.Gluzberg, I.M. Eitenberg, B.I.Rameyev, V.S.Linskiy, L.A.Kosharskiy.

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S/194/62/000/007/006/160
D222/D309

9,7100

AUTHOR: Zhogolev, Ye.A.

TITLE: A programming system using a library of subroutines

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7-1-20 n (In collection: Sistema avtomatiz. programmirovaniya, M., Fizmatgiz, 1961, 15 - 52)

TEXT: A standard assembly program, ССП -2 (SSP-2) for the Стрела (Strela) computer, written at the Vychislatel'nyy tsentr MGU (Computer Center, MGU) is described. This program is used for the input of separate blocks with automatic allocation of storage and corresponding processing. Input of each block can take place from cards, magnetic tape, or by an interchange between storage units. SSP-2 consists of two parts which are input in succession. The first half is a program for the automatic allocation of storage, and the second is the assembly program proper. SSP-2 is called in by two instructions. The place of each block in storage is determined by a

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A programming system using a ... S/194/62/000/007/006/160
D222/D309

table of storage allocation which is assembled either manually, or automatically by SSP-2 from the corresponding information. The algorithm for the automatic formulation of this table is given. SSP-2 imposes some requirements on the standard blocks. Each block must start at a definite address. The internal addresses are processed by the CM 60 (SP60) standard program of the Strela. The external addresses are processed by means of tables of external addresses, attached to each block. The convenience of using standard subroutines depends on the method of allocating these in storage and the method for calling them in. The allocation of subroutines in storage is done by SSP-2. Calling in a subroutine requires that some information that is necessary for its operation must be specified, and then control is transferred to the subroutine. A method of calling is described in which each subroutine is appended with a certain forming part which is partially independent of the contents of the subroutine. A special subroutine, 77, is described which is used in the Strela computer for the simplification of the forming parts of subroutines. [Abstracter's note: Complete translation.]

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

9,7100

S/194/62/000/007/002/160
D222/D309

AUTHOR: Zhogolev, Ye.A.

TITLE: Block for the ordering of operators and the assignment of addresses

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7-1-15 shch (In collection: Sistem avtomatiz. programmirovaniya, M., Fizmatgiz, 1961, 143 - 145)

TEXT: The program described is a part of the programming program written at the Vychislitel'nyy tsentr MGU (Computer Center, MGU) for the Strela computer. The program is intended for: the ordering of the operators in a sequence indicated in the logical scheme; the allocation of working cells in storage; the economization and allocation of constants; the conversion of symbolic addresses into internal and external addresses, and for the output, on punched cards with simultaneous checking, of the abbreviated logical scheme and of the object program in the form of a standard block using the standard program СП 60 (SP 60). There are provisions for process-

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Block for the ordering of operators ... S/194/62/000/007/002/160
D222/D309

ing the program block for standard components by the program СПП-2 (SSP-2) without putting the block onto punched cards initially. [Abstracter's note: Complete translation]. V/B

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, Ye.A. (Moskva)

Command system and interpreting system in the machine "Setun'."
Zhur. vych. mat. i mat. fiz. 1 no.3:499-512 My-Je '61. (MIRA 14:8)
(Electronic digital computers)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

TRIFONOV, N.P., red.; ROSLYAKOV, G.S., red.; ZHOGOLEV, Ye.A., red.; GOL'DENBERG, G.S., red.; YERMAKOV, M.S., tekhn. red.

[Computing techniques and programming; collection of works of the Moscow University Computer Center]Vychislitel'nye metody i programmirovanie; sbornik rabot Vychislitel'nogo tsentra Moskovskogo universiteta. Moskva, Izd-vo Mosk. univ. Vol.1. 1962. 349 p. (MIRA 15:10)

(Electronic calculating machines)
(Programming (Electronic computers))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, Ye.A.; TRIFONOV, N.P.; SHAKHSUVAROV, D.N.

Calculation of electromagnetic fields in lamellar media. Vych. met. i prog. 1:209-233 '62. (MIRA 15:8)
(Field theory) (Electromagnetic waves)
(Electronic calculating machines)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

L 19431-63 EWT(d)/FCC(w)/BDS AFFTC/IJP(C) Pg-4
ACCESSION NR: AR3005384 S/0044/63/000/006/V001/V002

SOURCE: RZh. Matematika, Abs. 6V2

AUTHOR: Zhogolev, Ye. A.

TITLE: A program for integrating systems of ordinary second-order differential equations by the Stermer method

CITED SOURCE: Sb. rabot Vychisl. tsentra Mosk. un-ta, v. 1, 1962, 293-305

TOPIC TAGS: numerical method, second-order differential equation, Stermer method, Runge-Kutta method

TRANSLATION: The program is intended for integrating the system:

$$\frac{d^2y}{dx^2} = f(x, y) \qquad (1)$$

with the initial conditions

$$y\Big|_{x=x_0} = y_0, \quad \frac{dy}{dx}\Big|_{x=x_0} = v_0 \qquad (2)$$

according to the extrapolation

$$y^{(c)}_{k+1} = \{y_k + \nabla y_k + 12 f^*_k + \nabla^2 f^*_k + \nabla^{11} f^*_k\} +$$

and interpolation

$$+ \frac{19}{20} \nabla^4 f^*_k + \ldots \qquad (3)$$

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$$y_{k+1}^{(\nu+1)} = [y_k + \nabla y_k + f_{k+1}^{(\nu)} + \tfrac{1}{12} f_k^{(\nu)} - \nabla^2 f_k^{(\nu)} - \tfrac{1}{20} \nabla^4 f_{k+1}^{(\nu)} + \ldots \qquad (4)$$

formulas of Stermer with automatic interval selection, taking into account only those terms in these formulas which appear in square brackets. As a measure of accuracy in the determination of the n-dimensional vector we take the quantity

$$M^*[y, \Delta y, q] = \max \delta^*(y_i, \Delta y_i, q), \quad m > 0,$$
$$s > 0, \quad m + s < n, \quad m < l < m + s,$$

where Δy_i is the absolute error in y_i.

$$\delta^*(y_i, \Delta y_i, q) = |\Delta y_i| \cdot 2^{-\max(\text{nop } y_i - q, 0)},$$

q is an order of specified accuracy $\mathcal{E}$ of integration in each interval, determined from the equation $\mathcal{E} = E \cdot 2^q$. At each integration interval, the vectors $y_{k+1}^{(0)}$ are computed from formula (3) and $y_{k+1}^{(1)}$ from formula (4). Upon fulfillment of the equation

$$M^*[y_{k+1}^{(1)}, y_{k+1}^{(1)} - y_{k+1}^{(0)}, q] < E \cdot 2^q - \varepsilon$$

it is assumed that the integration interval has been chosen with sufficient accuracy. The non-fulfillment of this inequality means that the extrapolation formula (3) does not provide the required accuracy, so that an additional analysis of the accuracy of the solution obtained with interpolation formula (4) is carried out. The latter assures the required accuracy of integration upon fulfillment of the inequalities

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$$M^*[y^{(1)}_{k+1},\ y^{(1)}_{k+1}-y^{(0)}_{k+1},\ q]<20\varepsilon$$
$$M^*[y^{(2)}_{k+1},\ y^{(2)}_{k+1}-y^{(1)}_{k+1},\ q]<\varepsilon.$$

In case of non-fulfillment of one of these inequalities, the size of the integration interval h is halved and the basic vectors are recomputed according to formulas (3), (4). The Runge-Kutta method is employed for the first four integration steps. The author gives a detailed description of the algorithm for solving problem (1), (2) with the aid of formulas (3), (4) and the logical scheme of the program for its realization. To use this program it is necessary to construct two of its non-standard parts for each concrete problem, the first of which is intended for the computation of the vector f, and the second for the processing of results following the fulfillment of each successive step of integration. The suggested program occupies 259 memory cells during operation, not counting the indicated non-standard parts, where 10n + 3 working cells are used. P. Bondarenko.

DATE ACQ: 24Jul63 SUB CODE: MM ENCL: 00

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

S/794/62/000/001/010/010

AUTHOR: Zhogolev, Ye. A.

TITLE: Program for the integration of systems of ordinary [illegible] of the second order by the [illegible] method

SOURCE: [illegible]

N. P. Trifonov, O. S. Rozanova, [illegible]

TEXT: [illegible]

$dy_i/dx|_{x=x_0}$ [illegible] step. The algorithm employed in the computation is described, and the logical scheme is set forth. There are 3 references (1 Russian-language Soviet and 2 English-language: Gill, S. A process for the step-by-step integration of the differential equations in an automatic digital computing machine. Cambridge Phil. Soc. Proc., v.47, no.1, 1951, and Collatz, L. Numerical methods [illegible] differential equations, in Russian translation, Moscow, 1953).

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

VOLKONSKAYA, T.G.; ZHEMCHUZHNIKOVA, D.M.; ZHOGOLEV, Ye.A.; KOTIK, I.P.

Programs for calculating Bessel's functions. Vych. met. i prog. 1:316-323 '62. (MIRA 15:8)

(Bessel's functions)

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R002064910001-8

ZHOGOLEV, Ye. A.

Note on the language ALGOL-60. Zhur. vych. mat. i mat. fiz. 2 no.5:952-953 S-O '62. (MIRA 16:1)

(Programming languages(Electronic computers))

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